

lithium propionate

Other names:	lithium propanoate propanoic acid, lithium salt propionic acid, lithium salt
Inchi:	InChI=1S/C3H6O2.Li/c1-2-3(4)5;/h2H2,1H3,(H,4,5);/q;+1/p-1
InchiKey:	AXMOZGKEVIBBCF-UHFFFAOYSA-M
Formula:	C3H5LiO2
SMILES:	CCC(=O)[O-].[Li+]
Mol. weight [g/mol]:	80.01
CAS:	6531-45-9

Physical Properties

Property code	Value	Unit	Source
ss	143.17	J/mol×K	NIST Webbook
ss	175.90	J/mol×K	NIST Webbook
tf	604.15	K	Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C
tf	606.50 ± 0.20	K	NIST Webbook
tt	606.80 ± 0.20	K	NIST Webbook

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cps	130.29	J/mol×K	298.15	NIST Webbook
cps	143.80	J/mol×K	298.15	NIST Webbook

Sources

Lithium C1-C12 n-Alkanoates: Thermal behavior from -30C to 600C: NIST Webbook: <https://www.doi.org/10.1021/je400054m>
<http://webbook.nist.gov/cgi/cbook.cgi?ID=C6531459&Units=SI>

Legend

cps:	Solid phase heat capacity
ss:	Solid phase molar entropy at standard conditions
tf:	Normal melting (fusion) point
tt:	Triple Point Temperature

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